

General Information

PTXV07B senses pressure and generates a proportional electrical output signal.

Safety Instructions

Read the installation instructions thoroughly. Failure to comply can result in device failure, system damage or personal injury. Before opening any system make sure the pressure in the system is brought to and remains at atmospheric pressure.

Make sure that the supply voltage to system and PTXV07B are disconnected before installation or service.

Compliance with local electrical regulations must be observed when connecting PTXV07B.

Improper installation of the cable between the pressure transducer and the electronic system may affect the output signal of the pressure transducer. Standard JTL installation procedures must be followed.

The PTXV07B is factory set. Do not modify the range setting. Improper adjustment may result in system damage or failure.

Do not exceed proof pressure of 21 barg (304 psig).

Mounting

Connection is male 7/16" 20UNF (1/4 Flare). Do not exceed max torque of 15 Nm.

Do not subject the transducer to high temperature as a result of soldering, braising or welding.

For All Applications

The transducer must be outside the refrigerated envelope and must not be subjected to excessive low temperature by conduction from the refrigeration system. Polyamide capillary can be used to insulate from the cold pipes by enabling the transducer to be located outside the cold envelope. Polyamide Capillary with female connectors at each is required to connect pressure transducer to Schrader point on suction line. Please see Document 03211 for further details.

Mounting position: as desired

Wiring

Four wire connection to JTL controllers. Two of the four wires used. See drawing overleaf for details.

Technical Data

Pressure range	-1 . . 7 bar gauge (-14.5 . . 101.5 psig)
Proof pressure, max	21 bar gauge (304 psig)
Output	4 . . . 20 mA
Supply voltage	8 . . . 30 V dc two wire protected against reverse polarity
Load resistance for output	$R \leq \frac{\text{supply voltage} - 10 \text{ V}}{0.02 \text{ A}}$

Total Error (including hysteresis, repeatability and linearity) 0.15 bar (2 psi)

Media compatibility:	HFC, HCFC, CFC
Media temperature range:	-40 . . . 125°C
Ambient temperature range:	0 . . . 70°C

Protection: IP67 according to IEC529 (DIN43650)

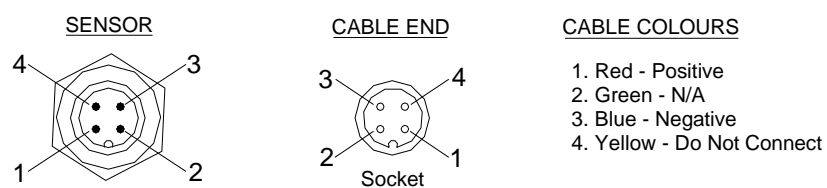


Fig 1 M12 Connection

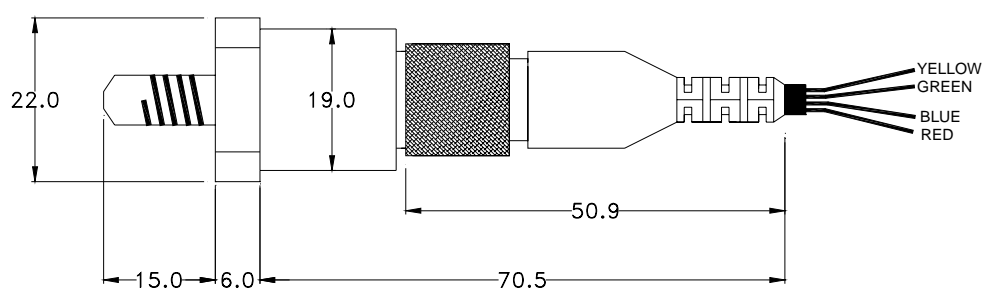


Fig 2

Applicable Documentation:

Application Drawing:	Doc No. 03157, 03237
Additional Installation Notes:	Doc No. 03211
Conversion Guide:	Doc No. 03170